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ATTORNEY DOCKET NO. CONFIRMATION NO.

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/885,929	09/885,929 06/22/2001		Mohan Kalkunte	108339-00015	5906	
4372	7590	12/21/2004		EXAMINER		
		VER PLOTKI	DAVIS, CYNTHIA L			
SUITE 400	ECTICOT	AVENUE, N.	ART UNIT	PAPER NUMBER		
WASHINGT	TON, DC	20036	2665			

DATE MAILED: 12/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applica	ation No.	Applicant(s)					
		09/885	,929	KALKUNTE ET AL.					
Office Ad	ction Summary	Examin	ier	Art Unit					
			L Davis	2665					
The MAILING Period for Reply	DATE of this communi	cation appears on t	the cover sheet w	vith the correspondence address	ş				
A SHORTENED ST. THE MAILING DATE - Extensions of time may be after SIX (6) MONTHS fro - If the period for reply spec - If NO period for reply is specified by the specified b	ecified above, the maximum sta	CATION. of 37 CFR 1.136(a). In no unication. o) days, a reply within the s tutory period will apply and will, by statute, cause the a	event, however, may a statutory minimum of thi d will expire SIX (6) MO application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this commun ABANDONED (35 U.S.C. § 133).	ication.				
Status					•				
1) Responsive to	communication(s) file	d on .							
2a) This action is		 ?b)⊠ This action is	non-final.						
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4a) Of the about 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-7</u> is 7) ☐ Claim(s)		e withdrawn from o							
Application Papers				•					
9) The specification	on is objected to by the	Examiner.							
10) The drawing(s)	filed on <u>23 June 2000</u>	is/are: a)⊠ acce	pted or b)⊡ obj	ected to by the Examiner.					
· · · · · · · · · · · · · · · · · · ·	• •			ince. See 37 CFR 1.85(a).					
				g(s) is objected to. See 37 CFR 1. ed Office Action or form PTO-15	1.				
Priority under 35 U.S.C	c. § 119								
a) All b) So 1. Certified 2. Certified 3. Copies of applicat	ent is made of a claim to ome * c) None of: I copies of the priority of I copies of the priority of of the certified copies of ion from the Internation d detailed Office action	documents have be documents have be of the priority docur nal Bureau (PCT R	een received. een received in <i>i</i> ments have beer Rule 17.2(a)).	Application No n received in this National Stag	e				
Attachment(s)									
1) Notice of References C 2) Notice of Draftsperson's 3) Information Disclosure S Paper No(s)/Mail Date S	s Patent Drawing Review (P Statement(s) (PTO-1449 or		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-4 and 6-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Kung.

Regarding claim 1, a network switch comprising a plurality of input ports that receive data packets is disclosed in Kung, figure 2, element 210 (a gigabit switch would have a plurality of input ports). An external address resolution interface connected to at least one of said plurality of input ports, said external interface externally transmitting said data packets for processing, is disclosed in Kung, figure 2, element 214. A memory management unit is disclosed in Kung, figure 2, element 216 and column 8, lines 14-26. A plurality of output ports connected to the memory management unit is disclosed in figure 2, element 210 (a gigabit switch would have a plurality of output ports).

Regarding claim 2, the external address resolution interface being a high-speed external interface is disclosed in Kung, figure 2, elements 210 and 214 (in order for the

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switch to operate at gigabit speeds, the link between the switch and the DNS server must be high-speed).

Regarding claim 3, the external address resolution interface being an address resolution gigabit interface is disclosed in Kung, figure 2, elements 210 and 214 (in order for the switch to operate at gigabit speeds, the link between the switch and the DNS server must be at gigabit speed as well).

Regarding claim 4, an external ARL being connected to said external interface is disclosed in Kung, figure 2, element 214.

Regarding claim 6, receiving a data packet in an input port is disclosed in Kung, figure 2, element 210 (a gigabit switch would receive data packets at input ports).

Transmitting the packet from said input port over an interface to an external module for resolving the address of the packet, processing the packet in the external module, and transmitting the packet from the external module to the interface, and receiving the packet from the external module is disclosed in figure 2, element 214 (packets are sent over the interface to the external DNS for processing, then are returned once they are processed). Transmitting said data packet from said interface to a memory management unit is disclosed in figure 2, element 216, and column 8, lines 14-26 (the system manager does memory buffering for this switch). Transmitting said data packet from said memory management unit to an output port is disclosed in figure 2, element 210 (a gigabit switch would transmit packets to output ports).

Regarding claim 7, a network switch comprising an input port receiving means for receiving a data packet in an input port is disclosed in Kung, figure 2, element 210 (a

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gigabit switch would receive data packets at input ports). An input port transmitting means for transmitting said data packet from said input port over an interface to an external module for address resolution, a processing means for processing said packet in said external module, an external module transmitting means for transmitting said packet from said external module to said interface, and an interface receiving means for receiving said data packet in said interface from said external module are disclosed in figure 2, element 214 (packets are sent over the interface to the external DNS for processing, then are returned once they are processed). An interface transmitting means for transmitting said data packet from said interface to a memory management unit is disclosed in figure 2, element 216, and column 8, lines 14-26 (the system manager does memory buffering for this switch). A memory unit transmitting means for transmitting said data packet from said memory management unit to an output port is disclosed in figure 2, element 210 (a gigabit switch would transmit packets to output ports).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kung in view of Godfrey. An external address resolution chip connected to the external interface is missing from Kung. However, Kung does disclose in figure 2, element 214.

to use a small, chip-sized component.

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an external DNS. Also, Godfrey discloses in column 2, lines 16-18, a DNS embodied on a chip. It would have been obvious to one skilled in the art at the time of the invention to use an external DNS chip for address resolution. The motivation would be

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia L Davis whose telephone number is (571) 272-3117. The examiner can normally be reached on 8:30 to 6, Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CLD 12/7/2004

12/7/04

SUPERVISORY PATENT EXAMINER

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